Abstract of the Disclosure

The present invention provides a method, communication
5   system, and Internet Call Waiting/Holding (ICW/H) server for
providing internet call waiting service without dropping the
connection between a computer and an Internet Service Provider
(ISP). A computer, via a modem or the like, initiates an
internet call waiting connection between the computer and the
10   ISP via a switch. The ISP assigns a dynamic Internet Protocol
(IP) address to the computer for the internet call waiting
connection. The computer sends the directory number and the
dynamic IP address of the computer to an Internet Call
Waiting/Holding (ICW/H) server, which stores them. The ICW/H
15   server sends a message to the switch indicating that the call
waiting service is active. The switch, upon receiving an
incoming call request intended for the computer while the
internet call waiting connection is active, routes the
incoming call request to the ICW/H server. The ICW/H server
20   alerts the computer of the incoming call request without
dropping the internet call waiting connection.